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EXAMINER

BHATIA, AJAY M

ART UNIT PAPER NUMBER

2145

DATE MAILED: 11/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/881,129	<b>Applicant(s)</b> TONOUCHI, TOSHIO	
	<b>Examiner</b> Ajay M. Bhatia	<b>Art Unit</b> 2145	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 September 2005.  
 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.  
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
 6) ☒ Claim(s) 1-20 is/are rejected.  
 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:  
         1. ☐ Certified copies of the priority documents have been received.  
         2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
         3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Response to Arguments***

Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Examiner disagrees with the applicant's definition of a edge router as a Cisco 7600 router which is typical example of a router but not a definition of a router. Additionally the definition provided is a definition that limits a edge router to ATM networks which the current claim language does not support. Should applicant wish to limit claims to these feature, the definition the definition should also be included in the claim limitations. Presently examiner is using the broadest possible definition provided by the "The Computer Language Company Inc." (a dictionary within the art) which defines a "edge router" as "Also called "access router," it is a router that sits at the periphery (edge) of a network, in contrast with a core router that is in the middle of a network. Edge routers and core router are relative terms. They are all just routers, but of different size and capacity. One tier's core router is another tier's edge router."

***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-20 are rejected under 35 U.S.C. 112; first paragraph, as based on a disclosure which is not enabling. "that limit user access to said ISP LAN only" critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). Applicant has failed to show in the specification that the router is limited to the LAN only, and that the LAN is only accessible.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The term "edge router" in claim 1-20 is a relative term which renders the claim indefinite. The term " edge router " is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The term edge is relative as describe in the definition since edge of one network can be the core of another. "The Computer Language Company Inc." (a dictionary within the art) which defines a "edge router" as "Also called "access router," it is a router that sits at the periphery (edge) of a network, in contrast with a core router that is in the middle of a network. Edge routers and core router are relative terms. They are all just routers, but of different size and capacity. One tier's core router is another tier's edge router."

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2, 8-11 and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Malik (U.S. Patent 6,584,097 referred to as Malik) in view of Malik (U.S. Patent 6,415,027 referred to as Malik\_027).

For claim 1, Malik teaches, a system of reserving a connecting service to the internet at a time period, comprising: (Malik, abstract)

a reservation table in which a state with regard to a reservation for a connecting service to the internet at a time period is stored; and (Malik, abstract, Col. 9 lines 4-14 and Col. 6 lines 39-65)

a contract unit for receiving an internet access request for a current time period from a user and judging whether said user reserved the current time period, by a prior reservation request, stored in said reservation table, wherein if it is judged that said Internet access request is not permitted,

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such that a reservation request can be made by the user via a web server on said ISP LAN. (Malik, abstract, figure 4, Col. 9 lines 4-14, Col. 10 lines 23-45 and alternative embodiment in Col. 11 lines 5-16, Col. 9 lines 50-55)

Malik fails to clearly disclose, the contract unit automatically directs said network management system to reroute the user to an ISP LAN by issuing commands to an edge router.

Malik\_027 teaches, the contract unit automatically directs said network management system to reroute the user to an ISP LAN by issuing commands to an edge router that limit user access to said ISP LAN only. (Malik\_027, Col. 3 lines 20-65)

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the internet reservation system of Malik with Malik\_027, since both inventions are in analogous art of providing ISP service over a telephone, additionally Malik provides reasons to combine, since Malik mentions the system of Malik\_027 in the reference. (Malik, Col. 1 lines 13-30, Col. 11 lines 1-15) and (Malik\_027, abstract)

For claim 2, Malik-Malik\_027 teaches, the system of reserving a connecting service to the internet at a time period according to claim 1, wherein said contract unit permits said reservation request when the number of users connecting to the internet at a same time as said time period included in said reservation request is smaller than or equal to a

predetermined value. (Malik, figure 4)

For claim 8, Malik-Malik\_027 teaches, the system of reserving a connecting service to the internet at a time period according to claim 1, further comprising:

a penalty data storing unit storing a penalty data to determine a penalty if said user cancels said reservation, and (Malik, Col. 9 lines 31-42)

wherein said contract unit gives said user a penalty information showing said penalty based on said penalty data. (Malik, Col. 9 lines 31-42 and 21-23)

For claim 9, Malik-Malik\_027 teaches, the system of reserving a connecting service to the internet at a time period according to claim 8, wherein said penalty is determined based on a remaining period until a starting time of a time period, included in said permitted reserving demand, at which said user wants said connecting service to the internet, as said penalty data. (Malik, abstract, Col. 9 lines 33-42)

For claim 10, Malik-Malik\_027 teaches, a method of reserving a connecting service to the internet at a time period, comprising:

receiving an internet access request from a user for a current time period investigating a reservation status of the current time period from a reservation table; judging whether said

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current time period has been reserved based upon said investigation determining if a reservation corresponds to said user by matching an user Id corresponding with said user with a identification key on said reservation table; and (Malik, abstract, figure 4, Col. 3 lines 15-23, Col. 6 lines 39-65, Col. 9 lines 4-14, Col. 10 lines 23-45 and alternative embodiment in Col. 11 lines 5-16)

rerouting the user by issuing commands to an edge router that limit user access to said ISP LAN only, such that a reservation can be made by the user via a web server on said ISP LAN if said reservation does not match the user. (Malik\_027, Col. 3 lines 20-65)

The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 10.

For claim 11, Malik-Malik\_027 teaches, the method of reserving a connecting service to the internet at a time period according to claim 10, wherein said reserving demand is permitted when the number of users connecting to the internet at a same time as said time period included in said reserving demand is smaller than or equal to a predetermined value. (Malik, abstract, Col. 6 lines 26-65 and Col. 9 lines 4-14)

For claim 17, Malik-Malik\_027 teaches, the method of reserving a connecting service to the internet at a time period according to claim 10, further comprising:



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storing a penalty data to determine a penalty if said user cancels said reservation; and

(Malik, abstract, Col. 9 lines 33-42)

giving said user a penalty information showing said penalty based on said penalty data.

(Malik, abstract, Col. 9 lines 33-42)

For claim 18, Malik-Malik\_027 teaches, the method of reserving a connecting service to the internet at a time period according to claim 17, wherein said penalty is determined based on a remaining period until a starting time of a time period, included in said permitted reserving demand, at which said user wants said connecting service to the internet, as said penalty data.

(Malik, abstract, Col. 9 lines 33-42)

For claim 19, Malik-Malik\_027 teaches, a contract server to reserve a connecting service to the internet at a time period, comprising:

A judging unit having a network management system, said judging unit for receiving a Internet access request for a current time period from a user and judging whether said user reserved the current time period, by a prior reservation request store in said reservation table, wherein if it is judged that said Internet access request is not permitted the contract unit automatically reroutes the user by issuing commands to and edge router that limit user access to said ISP LAN only, such that a reservation request can be made by the user via a web server on said ISP LAN; and (Malik, abstract, figure

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4, Col. 9 lines 4-14, Col. 10 lines 23-45 and alternative embodiment in Col. 11 lines 5-16, Col. 9 lines 50-55) and (Malik\_027, Col. 3 lines 54-65)

an input unit inputting a reserving request to reserve a connecting service to the internet at a certain time period from a user; and (Malik, abstract, Col. 3 lines 15-23)

The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 19.

For claim 20, Malik-Malik\_027 teaches, the contract server according to claim 19, wherein said contract server permits said reservation request when the number of users connecting to the internet at the same time as said time period at which said user wants said connecting service in said reservation request is smaller than or equal to a predetermined value. (Malik, abstract, Col. 3 lines 15-23 and Col. 4 lines 59-67)

Claims 3-7, and 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Malik-Malik\_027 as applied to claims 1-2, 8-11 and 17-20 above, and further in view of Yeh (U.S. Patent 6,690,929).

For claim 3, Malik-Malik\_027 teaches, a system of reserving a connecting service to the internet at a time period, comprising:

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a reservation table in which a state with regard to a reservation for a connecting service to the internet at a time period is stored; and

a contract unit inputting a reserving demand to reserve said connecting service to the internet at a certain time period from a user to judge whether said reserving demand is permitted with reference to said reservation table.

Malik-Malik\_027 fails to teach, the system of reserving a connecting service to the internet at a time period according to claim 1, further comprising:

a discount data storing unit storing a discount data to determine an accounting fee for said connecting service for a time period, and

wherein said contract unit finds out a discountable time period with respect to said accounting fee of said connecting service with reference to said reservation table and said discount data to give a user a discount frame data showing said discountable time period and said accounting fee of said discountable time period.

Yeh teaches, the system of reserving a connecting service to the internet at a time period according to claim 1, further comprising:

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a discount data storing unit storing a discount data to determine an accounting fee for said connecting service for a time period, and (Yeh, Col. 2 lines 40-46)

wherein said contract unit finds out a discountable time period with respect to said accounting fee of said connecting service with reference to said reservation table and said discount data to give a user a discount frame data showing said discountable time period and said accounting fee of said discountable time period. (Yeh, Col. 2 lines 33-45)

It would be obvious to one of ordinary skill at the time of the invention to combine the system of Malik-Malik\_027 and the method of Yeh, because the adaptation of a wireless system to a wire system is commonly know in the art additionally by allowing the charging based on Qos (Quality of service) will also increase the capacity of the internet service that provided by reducing the amount of bandwidth per a user. (Yeh, Col. 1 lines 33-45)

For claim 4, Malik-Malik\_027-Yeh teaches, the system of reserving a connecting service to the internet at a time period according to claim 3, wherein said accounting fee is determined based on a remaining period before a starting time of a time period at which said user wants said connecting service to the internet, as said discount data. (Yeh, Col. 2 lines 32-37), The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 4.

For claim 5, Malik-Malik\_027-Yeh teaches, the system of reserving a connecting service to the internet at a time period according to claim 3, wherein said accounting fee is determined based upon a utilization level of a time period for said reservation, as said discount data. (Yeh, Col. 1 line 64 to Col. 2 line 8) , The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 5.

For claim 6, Malik-Malik\_027-Yeh teaches, the system of reserving a connecting service to the internet at a time period according to claim 3, wherein said accounting fee is determined based on a condition of a day of a time period at which said user wants said connecting service to the internet, of the week, as said discount data. (Yeh, Col. 1 lines 33-45) , The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 6.

For claim 7, Malik-Malik\_027-Yeh teaches, the system of reserving a connecting service to the internet at a time period according to claim 4, wherein said accounting fee is determined such that a discount rate of said accounting fee is defined as being higher, the shorter the remaining period and the smaller the number of said reservations. (Yeh, Col. 1 lines 33-44) , The same motivation that was utilized in the rejection of claim 3 and 4, applies equally as well to claim 7.

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For claim 12, Malik-Malik\_027-Yeh teaches, a method of reserving a connecting service to the internet at a time period according to claim 10, comprising:

storing a discount data to determine an accounting fee for said connecting service for a time period; (Yeh, Col. 2 lines 40-47)

finding out a discountable time period with respect to said accounting fee of said connecting service based on said reservation data and said discount data; and (Yeh, Col. 2 lines 40-47)

giving a user a discount frame data showing said discountable time period and said accounting fee of said discountable time period. (Yeh, Col. 1 lines 52-59)

The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 12.

For claim 13, Malik-Malik\_027-Yeh teaches, the method of reserving a connecting service to the internet at a time period according to claim 12, wherein said accounting fee is determined based on a remaining period until a starting time of a time period at which said user wants said connecting service to the internet, as said discount data. (Yeh, Col. 1 lines 33-45 and Col.2 lines 40-47), The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 13.

For claim 14, Malik-Malik\_027-Yeh teaches, the method of reserving a connecting service to the internet at a time period according to claim 12, wherein said accounting fee is determined based on said state of said reservation, as said discount data. (Yeh, Col. 1 line 54 to Col. 2 line 8) , The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 14.

For claim 15, Malik-Malik\_027-Yeh teaches, the method of reserving a connecting service to the internet at a time period according to claim 12, wherein said accounting fee is determined based on a condition of a day of a time period at which said user wants said connecting service to the internet, of the week, as said discount data. (Yeh, Col. 1 lines 33-45) , The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 15.

For claim 16, Malik-Malik\_027-Yeh teaches, the method of reserving a connecting service to the internet at a time period according to claim 13, wherein said accounting fee is determined such that a discount rate of said accounting fee is defined as being higher, the shorter the remaining period and the smaller the number of said reservations. (Yeh, Col. 2 lines 40-47) , The same motivation that was utilized in the rejection of claim 3, applies equally as well to claim 16.

**Conclusion**

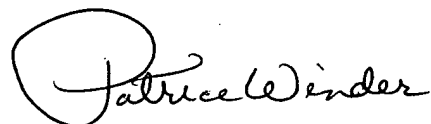
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached UPSTO 892 (if appropriate).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ajay M. Bhatia whose telephone number is (571)-272-3906. The examiner can normally be reached on M-F 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571)272-3933. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**PATRICE WINDER**  
**PRIMARY EXAMINER**